

CHEMISTRY LABORATORY REPORT  
SK025



NAME : Yuelina alp Muliawati  
NO. OF EXPERIMENT : 4  
DATE OF EXPERIMENT : 25/4/2022  
PRACTICUM : HVP2  
LECTURER'S NAME : Mdm. Gan Fie Chuen

TITLE	Reactions of Aliphatic and Aromatic Hydrocarbons
OBJECTIVE	<ol style="list-style-type: none"><li>1. To study the chemical properties of an alkane, alkene and arene</li><li>2. To differentiate an alkane from alkene and arene</li></ol>
THEORY	<p>Hydrocarbons are organic compounds that contain only carbon and hydrogen. Alkanes which are also known as paraffins are saturated hydrocarbons. They do not contain double or triple bonds. Hence, alkanes are relatively inert to chemical reactions. Alkanes undergo free radical substitution reaction.</p> <p>Alkenes are unsaturated hydrocarbons, with at least one double bond between two carbon atoms. Alkenes can easily undergo addition reactions at the C=C bond. For example, alkenes undergo hydrogenation and halogenation to form alkanes and dihalides respectively. Alkenes can also react with potassium permanganate solution in two different conditions.</p> <p>Arenes are aromatic hydrocarbons with stable molecular structures. Although arenes have a very high degree of unsaturation, they are relatively inert towards all addition reactions except at very high pressure and temperature. Arenes undergo electrophilic aromatic substitution reactions in the presence of a Lewis acid catalyst.</p>

# Matriculation Chemistry Lab Report Experiment 5

**H Kauffman**



## Matriculation Chemistry Lab Report Experiment 5:

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CHEMISTRY EXPERIMENTS James Signorelli,2014-09-19 Gifted and talented students and any student interested in pursuing a science major in college needs a rigorous program to prepare them while they are still in high school This book utilizes a format where the application of several disciplines science math and language arts principles are mandated Each lab concludes with either an essay or a detailed analysis of what happened and why it happened This format is based on the expectations of joining a university program or becoming an industrial science professional The ideal student lab report would be written in a lab research notebook and then the essay or final analysis is done on a word processor to allow for repeat editing and corrections The research notebook has all graph pages a title section and a place for the students and their assistants to sign and witness that exercise The basic mechanics of the lab report title purpose procedure diagrams data table math and calculations observations and graphs are handwritten into the book The conclusion is done on a word processor MS Word which allows the instructor to guide the student in writing and editing a complete essay using the MLA format When the final copy is completed the essay is printed and inserted into the lab notebook for grading At the end of the term the student has all their labs in one place for future reference These lab notebooks can be obtained for as little as 3 00 per book This is money well spent In our district the Board of Education buys the books for each student The BOE sees these books as expendable but necessary materials for all science and engineering instruction      **Experiments in General Chemistry, Lab Manual** Rupert Wentworth,Barbara H. Munk,2012-03-09 Each experiment in this manual was selected to match topics in the textbook and includes an introduction a procedure a page of pre lab exercises about the concepts the lab illustrates and a report form Some have a scenario that places the experiment in a real world context In addition each experiment has a link to a set of references and helpful online resources      *National 5 Chemistry Lab Skills for the Revised Exams of 2018 and Beyond* Bob Wilson,Leckie,2019-01-24 Exam Board SQA Level National 5 Subject Chemistry First Teaching 2017 First Exam 2018 Covers all required techniques and apparatus Provides practice in all skills of scientific inquiry Supports Assignment work      Laboratory Experiments for Chemistry, the Central Science, 5th Ed John Henry Nelson,1991      *The Student Lab Report Handbook* John D. Mays,2014-06-01 Second Edition      **Report Prepared for Chemistry 5** Benjamin Alexander,1930      Report of Work in Chemistry 5 Philip Greeley Stevens,1924      **Chem 341 Experiment 5, Reference 2** J. Cooke,      **Advanced Chemistry Lab Manual (Chem 305 Level)** Riley Ashford,2025-08-15  
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## **Table of Contents Matriculation Chemistry Lab Report Experiment 5**

1. Understanding the eBook Matriculation Chemistry Lab Report Experiment 5
  - The Rise of Digital Reading Matriculation Chemistry Lab Report Experiment 5
  - Advantages of eBooks Over Traditional Books
2. Identifying Matriculation Chemistry Lab Report Experiment 5
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Matriculation Chemistry Lab Report Experiment 5
  - User-Friendly Interface
4. Exploring eBook Recommendations from Matriculation Chemistry Lab Report Experiment 5
  - Personalized Recommendations
  - Matriculation Chemistry Lab Report Experiment 5 User Reviews and Ratings
  - Matriculation Chemistry Lab Report Experiment 5 and Bestseller Lists
5. Accessing Matriculation Chemistry Lab Report Experiment 5 Free and Paid eBooks
  - Matriculation Chemistry Lab Report Experiment 5 Public Domain eBooks
  - Matriculation Chemistry Lab Report Experiment 5 eBook Subscription Services

- Matriculation Chemistry Lab Report Experiment 5 Budget-Friendly Options
- 6. Navigating Matriculation Chemistry Lab Report Experiment 5 eBook Formats
  - ePub, PDF, MOBI, and More
  - Matriculation Chemistry Lab Report Experiment 5 Compatibility with Devices
  - Matriculation Chemistry Lab Report Experiment 5 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Matriculation Chemistry Lab Report Experiment 5
  - Highlighting and Note-Taking Matriculation Chemistry Lab Report Experiment 5
  - Interactive Elements Matriculation Chemistry Lab Report Experiment 5
- 8. Staying Engaged with Matriculation Chemistry Lab Report Experiment 5
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Matriculation Chemistry Lab Report Experiment 5
- 9. Balancing eBooks and Physical Books Matriculation Chemistry Lab Report Experiment 5
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Matriculation Chemistry Lab Report Experiment 5
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Matriculation Chemistry Lab Report Experiment 5
  - Setting Reading Goals Matriculation Chemistry Lab Report Experiment 5
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Matriculation Chemistry Lab Report Experiment 5
  - Fact-Checking eBook Content of Matriculation Chemistry Lab Report Experiment 5
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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